















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	DSK22 THRU DSK220
Overseas Part Number	DSK22 THRU DSK220
▶ Equivalent Part Number	DSK22 THRU DSK220





2.0A Surface Mount Schottky Barrier Rectifiers - 20V-200V

Features

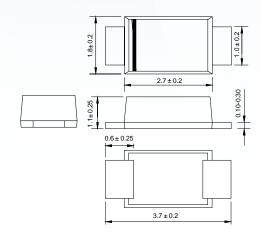
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds
- ◆ Compliant to RoHS Directive 2011/65/EU
- ◆ Compliant to Halogen-free

Mechanical data

- ◆ Case: JEDEC SOD-123 molded plastic body
- ◆ Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any

Package outline

SOD-123



Dimensions in inches and (millimeters)

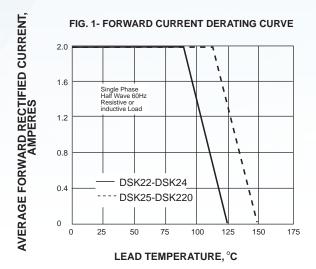
Maximum ratings and Electrical Characteristics (AT TA=25°C unless otherwise noted)

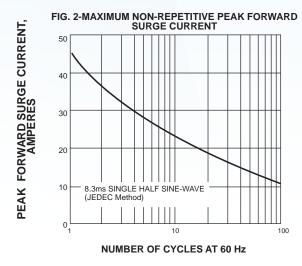
PARAMETER	SYMBOLS	DSK22	DSK23	DSK24	DSK25	DSK26	DSK28	DSK210	DSK215	DSK220	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current		2.0							A		
at TL(see fig.1)	l(AV)	2.0				^					
Peak forward surge current											
8.3ms single half sine-wave superimposed on	IFSM	45.0				Α					
rated load											
Maximum instantaneous forward voltage at 2.0A	VF		0.55		0.	70	C).85	0.	92	V
Maximum DC reverse current Ta=25℃		0.5				mA					
at rated DC blocking voltage Ta=100℃	lR	10.0			5	5.0 2.0)			
Typical junction capacitance (NOTE 1)	Сı	220				pF					
Typical thermal resistance (NOTE 2)	Rθja	85				°C/W					
Operating junction temperature range	TJ,	-55 to +125 -55 to +150			°C						
Storage temperature range	Тѕтс	-55 to +150			°C						

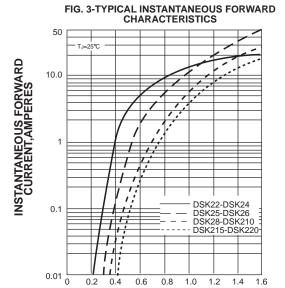
Note: 1. Measured at 1 MHz and applied reverse voltage of 4.0 V D.C. 2.P.C.B. mounted with 2.0 x 2.0 "(5.0 x 5.0 cm) copper pad areas



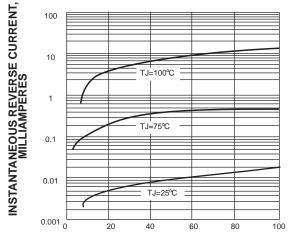
Rating and characteristic curves





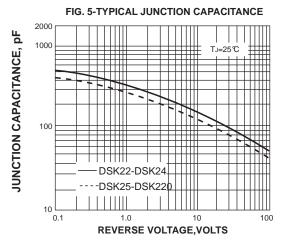


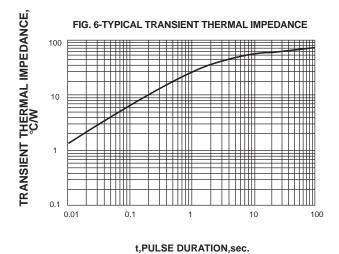






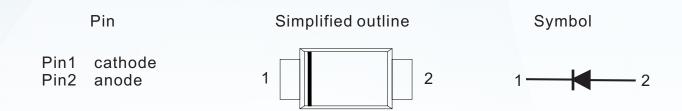








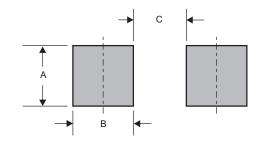
Pinning information



Marking

Type number	Marking code
DSK22	K22
DSK23	K23
DSK24	K24
DSK25	K25
DSK26	K26
DSK28	K28
DSK210	K210
DSK215	K215
DSK220	K220

Suggested solder pad layout

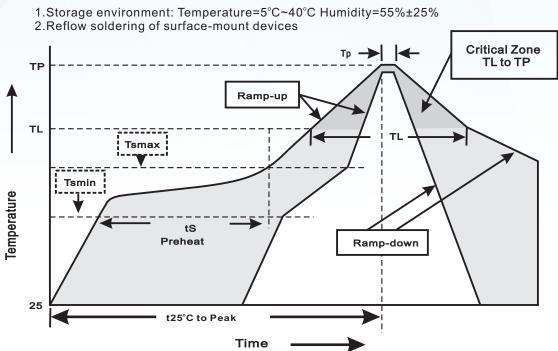


Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)



Suggested thermal profiles for soldering processes



3.Reflow soldering

Profile Feature	Soldering Condition
Average ramp-up rate(T∟ to T _P)	<3°C/sec
Preheat -Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(min to max)(ts)	150°C 200°C 60~120sec
Tsmax to T∟ -Ramp-upRate	<3°C/sec
Time maintained above: -Temperature(TL) -Time(tL)	217°C 60~260sec
Peak Temperature(T _P)	255°C-0/+5°C
Time within 5°C of actual Peak Temperature(t _P)	10~30sec
Ramp-down Rate	<6°C/sec
Time 25°C to Peak Temperature	<6minutes



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